**CHAPTER-1**

**INTRODUCTION**

* 1. **INTRODUCTION TO PROJECT**

"Online Restaurant Management System" is a web application. This system is developed to automate day to day activity of a restaurant. Restaurant is a kind of business that serves people all over world with ready made food. This system is developed to provide service facility to restaurant and also to the customer. This restaurant management system can be used by employees in a restaurant to handle the clients, their orders and can help them easily find free tables or place orders. The services that are provided is food ordering and reservation table management by the customer through the system online, customer information management and waiter information management, menu information management and report. The restaurant menu is organized by categories (appetizers, soups, salads, entrees, sides and drinks) of menu items. Main objective build the system this is to provide ordering and reservation service by online to the customer. Each menu item has a name, price and associated recipe. A recipe for a menu item has a chef, preparation instruction sand associated ingredients. With this system online, ordering and reservation management will become easier and systematic to replace traditional system where are still using paper. To resister a meal online, the customer has to become a member first then he can access the later part of the site. this project to facilitate customer for make online ordering and reservation. The option of becoming member was only an attempt to avoid (to some extent) placing the fake bookings.  
  
Online Restaurant management system is the system for manage the restaurant business. After successful login the customer can access the menu page with the items listed according to the desired time. The main point of developing this system is to help restaurant administrator manage the restaurant business and help customer for online ordering and reserve table. In proposed system user can search for a menu according to his choice i.e. according to price range and category of food and later he can order a meal.  
  
The project is developing because; many restaurants have a lot difficult to manage the business such as customer ordering and reservation table. If the customer book an order and later wants to cancel the order, he is permitted to do this only within a specific time period. By using manual customer ordering is difficult to waiter keep the correct customer information and maybe loss the customer information. The customer is also given with the facility to view the status of the order and if the order is ready then he can go and get it.   
  
So, online restaurant management system will develop to help the restaurant administrator to manage restaurant management and for customer make their online ordering and reservation table. At Management side, initially the staff member has to login, and according to his designation the privileges are set. Other than that, this project is to upgrade the manual system and make the business easily to access and systematic. If the staff member is a cook, then he is allowed to edit only the order items status, indicating which menu items he has prepared.

**User of the system**  
  
customer, administrator  
  
**Customer**  
  
This user will register to be a member to use the online system of this online restaurant management system. This online ordering divided into two type of customer; it is customer dine-in ordering and takeaway ordering. For dine in ordering, customer will view menu, make online ordering and make a reservation table. This system allows customer to place an order or allow him to cancel the book order.  But takeaway ordering, customer can view menu and online ordering without reservation table. During login, the costumer has to enter the time of delivery, and the menu items will appear accordingly. As availability of items differ from time to time. After customer make online ordering, customer can take ordering the date that customer was choose during make online ordering. Customers can search menu according to price range and the category as well, Event though, customer must confirm online ordering with restaurant three days before customer take the ordering for dine-in customer and for take-away customer will be confirm one hour before it whether by email or phone. customer can create his new account or he can edit his personal information from the existing account.

**Administrator**

Administrator or manager is the person who will manage the entire system. he is allowed to reassign the cook according to his priority, he can edit the menu information such as its price, items available currently, etc. This type of user will also do maintenance and control the application of this system. A manager can reassign the cook for a specific order or an item. Administrator takes a responsibility to register new customer, register new waiter, register new menu into database. A manager can edit/create some or whole part of the menu record on daily basis. That is by changing the menu items, prices, description, etc.  
  
  
**Module of the restaurant management system**  
  
  
  
**Customer Registration Module**  
  
Customer registration module contains customer's information such as customer personal information and other information related to that customer. Then, all of this information recorded into database. Customers are given with a facility to change his existing password.  
  
  
  
**Customer Online Ordering And Reservation Module**  
  
Customer online ordering and reservation module provides a form that needs to be fulfilling in term of ordering food and reservation table via online.  
  
**Waiter Module**  
  
Waiter module contains waiter information such as waiter personal information, task schedule and other information related to that waiter. Then, all of this information recorded into database.  
  
**Feedback Module**  
  
Based on food or everything about the restaurant, customer can send any suggestion or comment to the restaurant with feedback form. From this form, side of restaurant will know their weaknesses and strengths.  
  
**Menu Module**  
  
Menu module is food that restaurant prepared for customer. This module, customer can view the menu and make decision for order.  
  
**Generate Report Module**  
  
System provides an option for generate a report. The contents of the report as the following:  
  
1. The report of customer ordering and reservation table.  
  
2. Customer's information and waiter information.  
  
3. Suggestion or comment that customer insert at feedback form  
  
4. profit business for restaurant  
  
  
  
This system will be going to help customer and administrator in restaurant especially part of online ordering and reservation table. Most of restaurant has a problem of the ordering and reservation table. A manager can create a new entry of cook or edit the existing cook’s information from the cook’s list. The result of online ordering and reservation table will give customer easy to make ordering and reservation table online and hopefully can smoother up the job of administrator and waiter. A manager can block a particular customer before signing up. This happens when the customer’s previous history is bad, This system also produces a computerized system in defining the best solution in each ordering and reservation problem faces by customer and administrator.  
  
A restaurant management system project with user and admin accounts, graphical room booking, booking amount calculation and appropriate billing. The Restaurant Management System helps the restaurant manager to manage the restaurant more effectively and efficiently by computerizing meal ordering, billing and Hotel Management System Final Year Computer Science Engineering student Project was developed in java is the front-end &Oracle is the back end.

**Software requirement**

1)create forms using Angular13

2)Do Validation to the forms and test the form elements.





















